

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P258855

Luminaire Tested: **14CZ-LD5-39-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3243.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

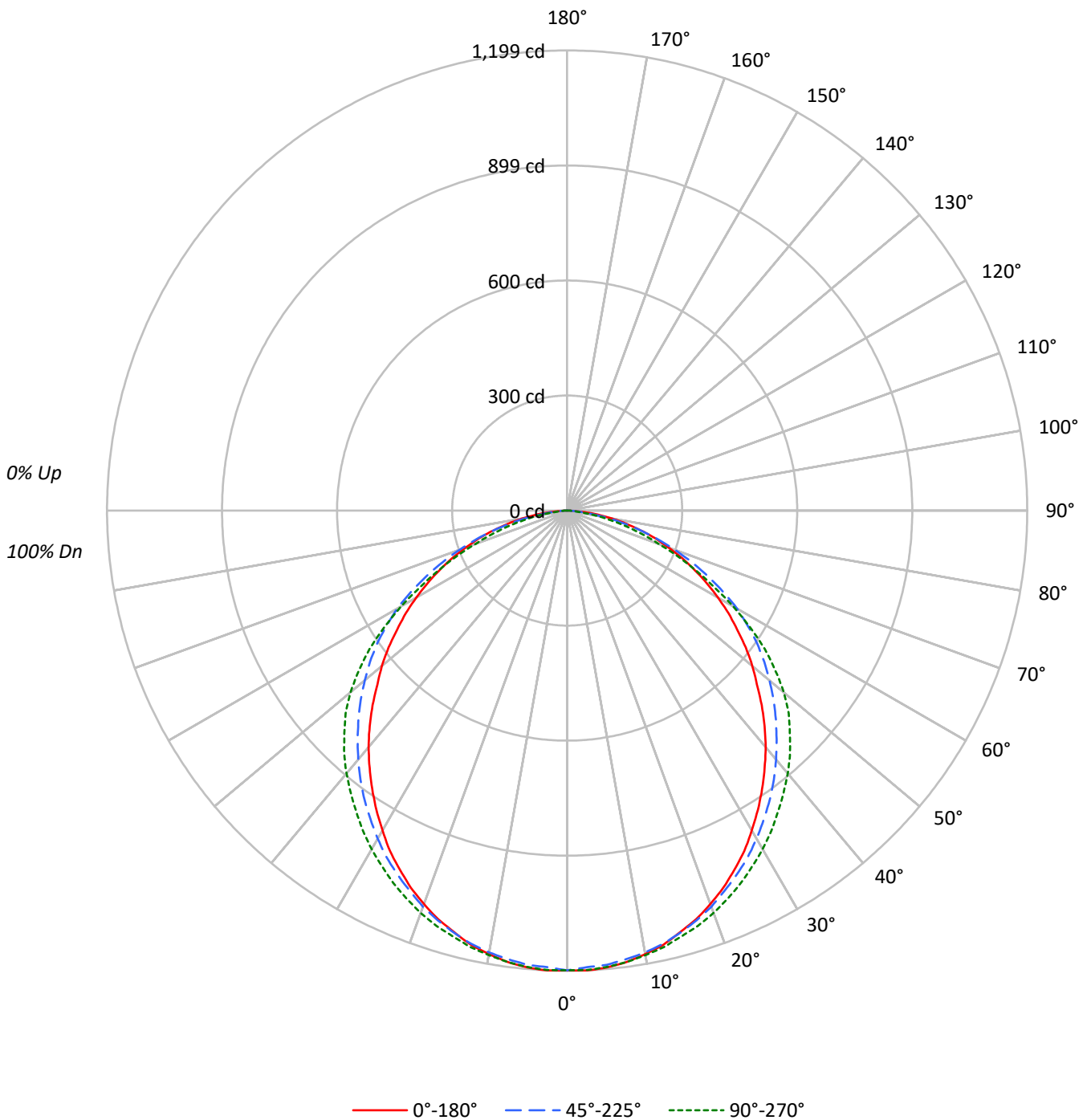
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3224	3224	3224
5°	3228	3209	3224
10°	3206	3195	3214
15°	3168	3172	3200
20°	3124	3145	3195
25°	3064	3106	3179
30°	2990	3067	3166
35°	2910	3024	3147
40°	2827	2975	3142
45°	2728	2926	3124
50°	2638	2880	3085
55°	2536	2834	2949
60°	2442	2753	2691
65°	2337	2576	2365
70°	2205	2342	2001
75°	2059	2028	1653
80°	1815	1568	1209
85°	1426	760	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.5
10°-20°	322.5	9.9
20°-30°	484.0	14.9
30°-40°	577.0	17.8
40°-50°	594.3	18.3
50°-60°	529.6	16.3
60°-70°	381.6	11.8
70°-80°	199.6	6.2
80°-90°	41.3	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	919.6	28.4
0°-40°	1496.6	46.1
0°-60°	2620.5	80.8
0°-90°	3243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1195	1192	1188	1195	1194	113
15°	1137	1139	1139	1150	1149	321
25°	1032	1038	1046	1066	1071	475
35°	886	897	920	951	958	554
45°	717	733	769	812	821	553
55°	540	558	604	632	629	485
65°	367	380	405	386	371	364
75°	198	208	195	169	159	210
85°	46	40	25	22	22	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.0	1198.0	1198.0	1198.0	1198.0
2.5°	1199.4	1196.5	1190.7	1198.0	1198.0
5°	1195.1	1192.2	1187.8	1195.1	1193.6
7.5°	1186.4	1183.5	1179.2	1187.8	1186.4
10°	1173.4	1172.0	1169.1	1177.7	1176.3
12.5°	1158.9	1157.5	1156.1	1164.7	1164.7
15°	1137.3	1138.7	1138.7	1150.3	1148.8
17.5°	1117.0	1118.5	1119.9	1134.4	1134.4
20°	1091.0	1092.5	1098.3	1114.2	1115.6
22.5°	1063.6	1065.0	1072.2	1091.0	1093.9
25°	1031.8	1037.6	1046.2	1066.5	1070.8
27.5°	1000.0	1004.3	1018.8	1041.9	1044.8
30°	962.4	971.1	987.0	1013.0	1018.8
32.5°	924.8	935.0	953.7	982.6	989.9
35°	885.8	897.4	920.5	950.9	958.1
37.5°	845.4	855.5	884.4	916.2	926.3
40°	804.9	815.0	846.8	882.9	894.5
42.5°	761.6	776.0	807.8	848.3	859.8
45°	716.8	732.7	768.8	812.1	820.8
47.5°	670.5	687.9	729.8	773.1	783.2
50°	630.1	645.9	687.9	729.8	737.0
52.5°	586.7	601.2	647.4	682.1	683.5
55°	540.5	557.8	604.0	631.5	628.6
57.5°	498.6	513.0	557.8	572.2	563.6
60°	453.8	466.8	511.6	513.0	500.0
62.5°	410.4	423.4	458.1	448.0	432.1
65°	367.0	380.1	404.6	385.8	371.4
67.5°	325.1	336.7	351.2	326.6	312.1
70°	280.3	296.2	297.7	268.8	254.3
72.5°	241.3	250.0	247.1	219.7	206.6
75°	198.0	208.1	195.1	169.1	159.0
77.5°	157.5	164.7	147.4	122.8	115.6
80°	117.1	121.4	101.2	82.4	78.0
82.5°	79.5	79.5	57.8	44.8	40.5
85°	46.2	40.5	24.6	21.7	21.7
87.5°	15.9	10.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)